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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/041,964	01/09/2002	Makoto Oka	SON-2320	4260
· 7590 10/05/2005			EXAMINER	
RADER, FISHMAN & GRAUER, P.L.L.C.			POWERS, WILLIAM S	
Suite 501			ART UNIT	PAPER NUMBER
1233 20th Street, NW Washington, DC 20036				THE ER NOMBER
			2134	

DATE MAILED: 10/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	A	I Amelia amida)				
	Application No.	Applicant(s)				
Office Action Summary	10/041,964	OKA ET AL.				
omec Action Gammary	Examiner	Art Unit				
The MAILING DATE of this communication app	William S. Powers	th the correspondence address	_			
Period for Reply	sears on the cover sheet wi	ar are correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period value and the second period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MON e, cause the application to become AB	CATION. eply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 09 Ja	anuary 2002.					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for alloward	nce except for formal matte	ers, prosecution as to the merits is				
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D	. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 1-36 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.					
Application Papers						
9) The specification is objected to by the Examine	er.					
10)⊠ The drawing(s) filed on 09 January 2002 is/are	: a) accepted or b) ⊠ o	bjected to by the Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct	· -	•				
11) The oath or declaration is objected to by the Ex	kaminer. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document * See the attached detailed Office action for a list 	s have been received. s have been received in A rity documents have been u (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attach an aut (a)						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s	tummary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 				

DETAILED ACTION

Drawings

- 1. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g).
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: Figure 20, Reference character S257.
- 3. The drawings are objected to because Figures 21-24 each have multiple subfigures, but a letter does not denote each subfigure in the figures. Each subfigure must be denoted by a letter to lessen confusion.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate

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changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

4. Claim 14 is objected to because of the following informality: the verb "selects" (page 81, line 24) does not agree with the noun "certificate authority" (page 81, line 24). Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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5. Claims 13, 22 and 35 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 13, 22 and 35 are indefinite because it claims, "a plurality of signature algorithms are executed by each of said plurality of signature modules", whereas claims 1, 14 and 23 specify, "a plurality of signature modules each executing a different signature algorithm", emphasis added. The claims stand or fall with respect to the parent claims.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claims 1-35 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The subject matter is of the claims is not tangible, it appears to be a computer program, per se.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 1-3, 5-6, 8-25, 27, 28 and 30-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,659,616 to Sudia in view of U.S. Patent No. 6,035,402 to Vaeth et al. (hereto referred to as Vaeth).

As to claims 1, 13, 14, 22, 23, 35 and 36, Sudia teaches a certificate authority (column 3, lines 35-47), a public key certificate (column 4, lines 39-42) and multiple signatures appended to the certificate, each signature conforming to its individual authorization certificate (column 9, lines 37-46) and the use of an X.500 Directory (column 6, line 59-column 7, line 25), but does not expressly mention a registration authority.

Vaeth teaches the use of a registration authority (column 8, lines 3-6) in order to verify data and data requirements for the public key certificate and issue the certificates described in Sudia.

Therefore, it would have be obvious to one of ordinary skill in the art at the time the invention was made to implement the invention of Sudia with the registration

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authority of Vaeth in order to verify data and data requirements for the public key certificate and issue the certificates described in Sudia.

As to claims 2, 3, 9, 15, 16, 17, 19, 20, 21, 24, 25 and 31, Sudia teaches the use of X.500 attributes that outline the requirements for a valid public key certificate that include multiple signatures appended to the certificate relevant to the attributes (column 9, line 23-column 10, line 20).

As to claim 5, 6, 8, 10,11, 27, 28, 32 and 33, Sudia teaches particular signature requirements and restrictions to ensure validity of the signatures and the certificates (column 9, line 14-column 10, line 51).

As to claim 12 and 34, Sudia teaches a system where the sender uses a signature structure with a public/private key pair to sign a certificate (column 3, line 28-34).

As to claim, 18 and 30, Sudia teaches verification of signatures (column 9, lines 37-46).

8. Claims 4, 7, 26 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,659,616 to Sudia in view of U.S. Patent No. 6,035,402 to Vaeth et al. (hereto referred to as Vaeth) as applied to claims 1-3, 6, 14-16

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and 23-25 above, and further in view of U.S. Patent No. 6,202,157 to Brownlie et al. (hereto referred to as Brownlie).

As to claims 4, 7, 26 and 29, Sudia teaches a public key certificate issuing system with multiple signatures and a signature structure that stores data about the signature (column 3, lines 23-34), but does not expressly mention the recording of the key length or other parameter information associated with those signatures.

Brownlie teaches the use of a central security policy data directory that stores parameters of the signatures including key length and allowable algorithms (column 3, lines 25-49) in order to "insure the integrity of [security] policies in the system" (column 3, lines 12-13).

Therefore, it would have be obvious to one of ordinary skill in the art at the time the invention was made to implement the invention of Sudia and Vaeth with the storing of data associated with the signatures of Brownlie in order to "insure the integrity of [security] policies in the system" (column 3, lines 12-13).

Conclusion

1. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William S. Powers, whose telephone number is (571)

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272-8573. The examiner can normally be reached Monday-Thursday from 8 AM – 4:30

PM Eastern Time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse, can be reached at (571) 272-3838.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks PO Box 1450 Alexandria, VA 22313-1450

Or faxed to:

(571) 273-8300

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at (886) 217-9197 (toll-free).

September 28, 2005

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100